

	2009 BEST Consumable Kit List (provided by hub)		
	Check	Qty	Description
igus® Donated Parts		50 ea	EZ Energy Chain System®, P/N 05-4-038-0 Series E2, with 2 mounting brackets (P/N 050-20-12)
		2 ea	DryLin® N Low Profile Linear Guide system, P/N NK01-27-2-450
		6 ea	igubal® Flange Mount Spherical Bearing, 1/4", P/N EF0I-04
		6 ea	igubal® Pillow Block Mount Spherical Bearing, 1/4", P/N KSTI-04
		2 ea	DryLin® S, 1/4" diameter, hard anodized Aluminum Shaft, P/N AWI-04, 18 inch length
		6 ea	igubal® 1/4" Rod End Bearing, 1/4"-28 Thread, P/N KARI-04
Plastic and Metal Stock		1 ea	1/4" thick polypropylene sheet 12" X 24"
		1 ea	1/8" thick polycarbonate sheet 12" X 24"
		1 ea	0.5" thick X 6" wide 6061-T6 aluminum flat, 6" long
		1 ea	0.063" thick 5052-H32 aluminum sheet, 12" x 24"
		1 ea	0.5" diameter 6061-T6 aluminum round, 24" long
		1 ea	22 GA galvanized steel sheet, 12" X 12"
		2 ea	0.25" diameter AISI 1018 steel round, 24" long
		3 ea	piano wire, 0.063" diameter, 2' long
Wood Stock		1 ea	15/32" or 1/2" thick, 2'X4' plywood, BC or Luan grade
		1 ea	11/32" or 3/8" thick, 2'X4' plywood, BC or Luan grade
		1 ea	7/32" or 1/4" thick, 2'X4' plywood, BC or Luan grade
		2 ea	1" X 4" #2 whitewood, 2 ft long
		1 ea	1/4" X 48" hardwood dowel
PVC Pipes and Fittings		4 ea	1/2" schedule 40 PVC pipe, 5 ft long
		2 ea	3/4" schedule 40 PVC pipe, 5 ft long
		2 ea	1" schedule 40 PVC pipe, 5 ft long
		1 ea	4" PVC solid sewer pipe, SDR 35, 3 ft long (without integral coupling)
		10 ea	1/2" PVC 90 degree elbow (slip)
		10 ea	1/2" PVC tee (slip)
		10 ea	3/4" PVC 90 degree elbow (slip)
		10 ea	3/4" PVC tee (slip)
		6 ea	1" PVC 90 degree elbow (slip)
		6 ea	1" PVC tee (slip)
		1 ea	regular PVC cement, 4 oz
		4 ea	2.5" X 5/8" iron ZN, corner angle bracket
Hardware		4 ea	2" X 3/8" iron ZN, flat angle bracket
		2 ea	2.5"H X 1.69"W X 0.083" narrow hinge w/removable pin
		2 ea	1.5"H X 1.41"W X 0.047" narrow hinge w/nonremovable pin & 4 screws
		1 ea	extension spring for heavy doors, 13/32"OD, 0.0625" wire diameter, steel
		1 ea	6" x 6" steel turntable, 500 lb capacity
		2 ea	hose clamp, #4 1/4"-5/8" diameter
		1 ea	3/4" metal pipe hanger tape, 24 gauge, 10 ft long
		16 ft	18 gauge stranded copper wire, red insulation, single conductor
Electrical		16 ft	18 gauge stranded copper wire, black insulation, single conductor
		16 ea	snap-plug terminals (bullet connectors), insulated, male
		16 ea	snap-plug terminals (socket for bullet connectors), insulated, female
		20 ea	quick-disconnect terminal, insulated, female, 0.11" wide (Hub optional **)
		10 ea	quick-disconnect terminal, insulated, female, 0.187" wide (Hub optional **)
		2 ea	mini snap acting switches, SPDT, 10 amp (min)
		4 ea	sub-mini snap action switch, SPDT, 0.1 A, Omron P/N SS-01GL13PT
		2 ft	heat shrink tubing, 1/4" OD expanded, 2:1 ratio, polyolefin, black
		10 ea	11" long x 0.18" wide nylon cable tie
		20 ea	4" long x 0.1" wide nylon cable tie
		1 ea	vinyl electrical tape, 3/4" wide, 60 ft
Tapes and Adhesives		1 ea	friction tape, 3/4" wide, 60 ft
		1 ea	all purpose duct tape, 2" wide, 60 yd, (color optional)
		1 ea	nut/bolt locker, 0.2 oz (e.g., Devcon, Loctite, On the Spot, etc.)
		1 ea	carpenters wood glue, 4 oz
		1 ea	5 minute epoxy, 1 oz

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Threaded Fasteners		1 ea	1/4"-20 threaded rod, 3' long, steel
		25 ea	1/4"-20 hex nut, steel
		25 ea	1/4" SAE flat washer, steel
		25 ea	1/4" medium split lock washer, steel
		10 ea	1/4"-28 hex nut, 6/6 black nylon
		25 ea	#10-32 X 1 1/2" machine screws, steel, round head, phillips
		25 ea	#10-32 machine screw nuts, steel
		25 ea	#10 flat washer, steel
		100 ea	#8-32 X 1 1/4" machine screw, steel, pan head, phillips
		100 ea	#8-32 machine screw nuts, steel
		25 ea	#8 medium split lock washer, steel
		25 ea	#4-40 X 1" machine screws, round head, steel
		25 ea	#4-40 machine screw nuts, steel
		10 ea	#2-56 X1" machine screws, pan head, phillips, stainless
		10 ea	#2-56 machine screw nuts, 3/16x1/16, steel
		10 ea	#2 flat washer, steel
		10 ea	wood screw eyebolts, 0.192 wire dia x .97 shank x .75 thread x .27 id, steel
		100 ea	#8 X 1" sheet metal screw, steel, hex head
		100 ea	#6 X 1" wood screws, steel, flat head
		25 ea	#4 X 3/4" wood screw, steel, slotted drive, round head
Miscellaneous		5 ft	3/4" nylon sticky back hook and loop fastener
		1 ea	#18 twisted nylon seine twine, 160 ft long
		4 ft	1/4" polypropylene covered shock cord (color optional)
		2 ft	3/8" thick, 1" wide, adhesive backed, gum rubber strip
		1 ea	aluminum paint grid for 5 gallon bucket
		1 ea	bicycle inner tube (26" X 1.5" - 2.0")
		1 ea	60x65" universal brake cable with housing (white or black)
		25 ea	#10 Rubber Band (1/16" wide x 1-1/4" long)
		25 ea	#32 Rubber Band (1/8" wide x 3" long)
		100 ea	1 1/4" long paper clips, 0.033 dia wire (No. 1 Regular)

Approved Optional Items (provided by team)	
Qty	Description
10 ea	wooden spring type clothes pins
2400 sq in	corrugated cardboard, less than 1/4" thick
2 ea	empty aluminum soft drink cans
3 ea	wire coat hangers with or without plastic coating, less than 1/8" dia
3 ea	solid core golf balls
1 ea	5 minute epoxy, 1 oz
1 ea	2 lb. 7 oz (maximum) empty coffee can with plastic lid
1 ea	4 oz. PVC primer
144 sq in	heavy duty aluminum foil
6 ea	wooden golf tees
1 ea	aluminum paint grid for 5 gallon bucket
1 ea	inner tube repair kit
4 ea	compact disk (standard size: 120mm diameter x 1.2 mm thick)

Notes: Approved Optional Items can be used *in addition* to those supplied by the hub.

** The supply of hub optional items is determined by the hub - teams may not add these items